ELSEVIER

15 February 1998

Optics Communications 147 (1998) 443–450

OPTICS COMMUNICATIONS

Author index to volume 147

Abbate, M., see Mormile, P. 147 (1998) 269
Ackemann, T., T. Scholz, Ch. Vorgerd, J. Nalik, L.M. Hoffer and G.L. Lippi, Self-lensing in sodium vapor: influence of saturation, atomic diffusion and radiation trapping 147 (1998) 411
Adam, G., see Ficek, Z. 147 (1998) 289
Afanasjev, V.V., B.A. Malomed, P.L. Chu and M.K. Islam, Generalized variational approximations for the optical soliton 147 (1998) 317
Ageev, L.A., see Miloslavsky, V.K. 147 (1998) 436
Alfano, R.R., see Wang, W.B. 147 (1998) 11
Ali, J., see Wang, W.B. 147 (1998) 11
Antonyuk, B.P. and V.B. Antonyuk, High efficient second harmonic generation in Ge-doped silica fibers 147 (1998) 143
Antonyuk, V.B., see Antonyuk, B.P. 147 (1998) 143

Bäder, U., J. Bartschke, I. Klimov, A. Borsutzky and R. Wallenstein, Optical parametric oscillator of quasi-phasematched $LiNbO_3$ pumped by a compact high repetition rate single-frequency passively Q-switched Nd:YAG laser 147 (1998) 95
Bakker, H.J., see Bonn, M. 147 (1998) 138
Bandelow, U., L. Recke and B. Sandstede, Frequency regions for forced locking of self-pulsating multi-section DFB lasers 147 (1998) 212
Bardroff, P.J., U. Leonhardt and W.P. Schleich, Adaptive phase retrieval of nonlinear waves 147 (1998) 121
Bartschke, J., see Bäder, U. 147 (1998) 95
Barty, C.P.J., see Squier, J.A. 147 (1998) 153
Becher, C. and K.-J. Boller, Intensity noise properties of Nd:YVO_4 microchip lasers pumped with an amplitude squeezed diode laser 147 (1998) 366
Beijerinck, H.C.W., see Vredenbregt, E.J.D. 147 (1998) 375
Benevides, C.A., M. Oriá, S.S. Vianna and J.W.R. Tabosa, Population transfer via optical pumping in cold cesium atoms 147 (1998) 51
Bennett, P.J., A. Malinowski, B.D. Rainford, I.R. Shatwell, Yu.P. Svirko and N.I. Zheludev, Femtosecond pulse duration measurements utilizing an ultrafast nonlinearity of nickel 147 (1998) 148
Bertolotti, M., see Garzia, F. 147 (1998) 333
Boboc, T., see Meisel, M.-G. 147 (1998) 83
Boller, K.-J., see Becher, C. 147 (1998) 366
Bonn, M., S. Woutersen and H.J. Bakker, Coherent picosecond vibron polaritons as probes of vibrational lifetimes 147 (1998) 138

0030-4018/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII S0030-4018(98)00041-8

Booth, D.J., see Garchev, D.D. 147 (1998) 254
Borsutzky, A., see Bäder, U. 147 (1998) 95
Bosch, S., see Ferré-Borrull, J. 147 (1998) 359
Brakenhoff, G.J., see Squier, J.A. 147 (1998) 153
Bucksbaum, P.H., see Lim, M.J. 147 (1998) 99

Carassa, F. and A. Melloni, Solitons in fibers with lumped amplifiers 147 (1998) 180
Chang, J.-S., see Kim, G.-H. 147 (1998) 131
Chen, C.-F., see Chi, S. 147 (1998) 42
Chen, K., see Yang, X.-L. 147 (1998) 323
Chi, S., C.-F. Chen and J.-C. Dung, Multiple soliton interactions in a polarization–division multiplexing system 147 (1998) 42
Choi, S., see Olsen, M.K. 147 (1998) 382
Chu, P.L., see Afanasjev, V.V. 147 (1998) 317
Ciucci, A., see De Rosa, M. 147 (1998) 55
Clarkson, W.A., see Pollnau, M. 147 (1998) 203
Conti, R.S., see Lim, M.J. 147 (1998) 99
Corbalán, R., see Mompart, J. 147 (1998) 299
Czub, J., J. Fiutak and W. Miklaszewski, Amplification of a light pulse in a two-level medium prepared by a short and strong pulse 147 (1998) 61

Dahmani, F., see Papernov, S. 147 (1998) 112
Dalton, B.J., see Swain, S. 147 (1998) 187
Demos, S.G., see Wang, W.B. 147 (1998) 11
Deniz, A.V., T. Lehecka, R.H. Lehmberg and S.P. Obenschain, Comparison between measured and calculated nonuniformities of Nike laser beams smoothed by induced spatial incoherence 147 (1998) 402
Dergachev, A.Yu. and S.B. Mirov, Efficient room temperature LiF:F_2^{+***} color center laser tunable in 820–1210 nm range 147 (1998) 107
De Rosa, M., A. Ciucci, D. Pelliccia, C. Gabbanini, S. Gozzini and A. Lucchesini, On the measurement of pressure induced shift by diode lasers and harmonic detection 147 (1998) 55
Devaux, F., G. le Tolguenec and E. Lantz, Phase conjugate imaging by type II parametric amplification 147 (1998) 309
Dung, J.-C., see Chi, S. 147 (1998) 42
Dunlop, A.M., E.M. Wright and W.J. Firth, Spatial soliton laser 147 (1998) 393

Erni, D., see Ollikainen, O. 147 (1998) 429

Fan, B., H.K.M. Vithana, J.C. Kralik and S.M. Faris, Optical circular dichroism of vacuum-deposited film stacks 147 (1998) 265
Faris, S.M., see Fan, B. 147 (1998) 265
Fernàndez, X., see Ferré-Borrull, J. 147 (1998) 359
Ferré-Borrull, J., X. Fernàndez, S. Bosch, S. Vallmitjana and E. Martín-Badosa, Post-processing of joint-transform correlator outputs with the Kolmogorov-Smirnov statistical test 147 (1998) 359
Ficek, Z., J. Seke, R. Kralicek and G. Adam, Stationary lineshape of a two-level atom in a narrow-bandwidth squeezed vacuum 147 (1998) 289
Ficek, Z., see Rudolph, T.G. 147 (1998) 78

Firth, W.J., see Dunlop, A.M. 147 (1998) 393
Fittinghoff, D.N., see Squier, J.A. 147 (1998) 153
Fiutak, J., see Czub, J. 147 (1998) 61
Fluck, D. and P. Günter, Efficient second-harmonic generation by lens wave-guiding in $KNbO_3$ crystals 147 (1998) 305
Fortunato, M., G. Harel and G. Kurizki, Recovering coherence via conditional measurements 147 (1998) 71
Franta, D. and I. Ohlídal, Statistical properties of the near-field speckle patterns of thin films with slightly rough boundaries 147 (1998) 349
Freedhoff, H.S., see Rudolph, T.G. 147 (1998) 78

Gabbanini, C., see De Rosa, M. 147 (1998) 55
Gallus, J., see Ollikainen, O. 147 (1998) 429
Garchev, D.D., M. Vasiliev and D.J. Booth, Wavelength-tunable chirped in-fiber Bragg gratings produced with a prism interferometer 147 (1998) 254
Garzia, F., P. Masciulli, C. Sibilia and M. Bertolotti, Temporal pulse response of a Cantor filter 147 (1998) 333
Glückstadt, J., Pattern generation by inverse phase contrast 147 (1998) 16
Gouvêa, P.M.P., E.W. Hansen, U.L. Österberg and D. Healy, Diffraction and aberration analysis of a pulseshaper for a Gaussian beam 147 (1998) 163
Gozzini, S., see De Rosa, M. 147 (1998) 55
Grimm, R., see Manek, I. 147 (1998) 67
Günter, P., see Fluck, D. 147 (1998) 305
Gureyev, T.E. and S.W. Wilkins, On X-ray phase retrieval from polychromatic images 147 (1998) 229

Haist, T. and H.J. Tiziani, Optical detection of random features for high security applications 147 (1998) 173
Hanna, D.C., see Pollnau, M. 147 (1998) 203
Hansen, E.W., see Gouvêa, P.M.P. 147 (1998) 163
Hardman, P.J., see Pollnau, M. 147 (1998) 203
Harel, G., see Fortunato, M. 147 (1998) 71
Healy, D., see Gouvêa, P.M.P. 147 (1998) 163
Hirao, K., see Si, J. 147 (1998) 313
Hnilo, A.A., see Marioni, M.A. 147 (1998) 89
Ho, H.P., A dual probe differential interference scheme for multi-layered high-density optical storage 147 (1998) 233
Hoffer, L.M., see Ackemann, T. 147 (1998) 411
Huber, Th., W. Lüthy and H.P. Weber, Color center to ion energy transfer in $YAlO_3:Er^{3+}$ 147 (1998) 117

Ibragimov, E., Three-wave interaction soliton switching in a polarization-gate geometry 147 (1998) 5
Islam, M.K., see Afanasjev, V.V. 147 (1998) 317
Ito, H., see Kowalski, F.V. 147 (1998) 103

Jaggard, D.L., see Manuar, O. 147 (1998) 219
Jayanth, P., R.K. Mohan and C.K. Subramanian, Experimental observations of transient phase conjugate waves in photorefractive bismuth silicon oxide crystals 147 (1998) 33
Jeon, J.-H., see Kim, G.-H. 147 (1998) 131

Kawatsuki, N., see Ono, H. 147 (1998) 237
Kim, B.Y., see Rhy, H.Y. 147 (1998) 47
Kim, G.-H., J.-H. Jeon, Y.-C. Noh, K.-H. Ko, H.-J. Moon, J.-H. Lee and J.-S. Chang, An array of phase singularities in a self-defocusing medium 147 (1998) 131
Kivshar, Yu.S., see Micallef, R.W. 147 (1998) 259
Klimov, I., see Bäder, U. 147 (1998) 95
Knappe, R., see Robertson, A. 147 (1998) 294
Ko, K.-H., see Kim, G.-H. 147 (1998) 131
Kowalski, F.V., K. Nakamura and H. Ito, Frequency shifted feedback lasers: continuous or stepwise frequency chirped output? 147 (1998) 103
Kralicek, R., see Ficek, Z. 147 (1998) 289
Kralik, J.C., see Fan, B. 147 (1998) 265
Kuittinen, M., see Vahimaa, P. 147 (1998) 247
Kurizki, G., see Fortunato, M. 147 (1998) 71

Laabs, H., Propagation of Hermite-Gaussian-beams beyond the paraxial approximation 147 (1998) 1
Laghate, M., see Mishra, S.R. 147 (1998) 328
Langhoff, H., see Meisel, M.-G. 147 (1998) 83
Lantz, E., see Devaux, F. 147 (1998) 309
Lee, H.-W., see Rhy, H.Y. 147 (1998) 47
Lee, J.-H., see Kim, G.-H. 147 (1998) 131
Lehecka, T., see Deniz, A.V. 147 (1998) 402
Lehmberg, R.H., see Deniz, A.V. 147 (1998) 402
Leonhardt, U., see Bardroff, P.J. 147 (1998) 121
Letokhov, V.S. and S.K. Sekatskii, On the possibility of ultrahigh-density WROM based on using laser and corpuscular beams 147 (1998) 19
le Tolguenec, G., see Devaux, F. 147 (1998) 309
Li, C., see Zhong, S. 147 (1998) 242
Li, Z., see Si, J. 147 (1998) 313
Lim, M.J., C.I. Sukenik, T.H. Stievater, P.H. Bucksbaum and R.S. Conti, Improved design of a frequency-shifted feedback diode laser for optical pumping at high magnetic field 147 (1998) 99
Liñares, J., see Vahimaa, P. 147 (1998) 247
Lippi, G.L., see Ackemann, T. 147 (1998) 411
Liu, A., Microcavity effect on the nonlinear optical intersubband absorption in semiconductor quantum wells 147 (1998) 279
Liu, S., see Zhong, S. 147 (1998) 242
Lohmann, A.W., see Zalevsky, Z. 147 (1998) 39
López-Lago, E., see Vahimaa, P. 147 (1998) 247
Love, J.D., see Micallef, R.W. 147 (1998) 259
Lucchesini, A., see De Rosa, M. 147 (1998) 55
Lüthy, W., see Huber, Th. 147 (1998) 117

Maeda, M., see Vasa, N.J. 147 (1998) 196
Malinowski, A., see Bennett, P.J. 147 (1998) 148
Malomed, B.A., Suppression of soliton jitter and interactions by means of dispersion management 147 (1998) 157
Malomed, B.A., see Afanasjev, V.V. 147 (1998) 317

Manek, I., Yu.B. Ovchinnikov and R. Grimm, Generation of a hollow laser beam for atom trapping using an axicon 147 (1998) 67
Manuar, O. and D.L. Jaggard, Scattering and perceived asymmetry of flowers, chips and loops 147 (1998) 219
Marioni, M.A. and A.A. Hnilo, Self-starting of self mode-locking Ti:sapphire lasers. Description with a Poincaré map 147 (1998) 89
Martín-Badosa, E., see Ferré-Borrull, J. 147 (1998) 359
Masciulli, P., see Garzia, F. 147 (1998) 333
Meisel, M.-G., T. Boboc, M. Wagner and H. Langhoff, Miniature hydrogen laser working at high pressure 147 (1998) 83
Melloni, A., see Carassa, F. 147 (1998) 180
Mendlovic, D., see Zalevsky, Z. 147 (1998) 39
Micallef, R.W., J.D. Love and Yu.S. Kivshar, Nonlinear bent single-mode waveguide as a simple all-optical switch 147 (1998) 259
Miklaszewski, W., see Czub, J. 147 (1998) 61
Miloslavsky, V.K., A. Nahal and L.A. Ageev, Peculiarities of spontaneous grating formation in photosensitive films under linearly and circularly polarized radiation 147 (1998) 436
Mirov, S.B., see Dergachev, A.Yu. 147 (1998) 107
Mishra, S.R., H.S. Rawat and M. Laghate, Nonlinear absorption and optical limiting IN metalloporphyrins 147 (1998) 328
Mitsuyu, T., see Si, J. 147 (1998) 313
Mohan, R.K., see Jayanth, P. 147 (1998) 33
Mompart, J., R. Corbalán and R. Vilaseca, Lasing without inversion in the V-type three-level system under the two-photon resonance condition 147 (1998) 299
Moon, H.-J., see Kim, G.-H. 147 (1998) 131
Mormile, P., L. Petti, M. Abbate, P. Musto, G. Ragosta and P. Villano, Temperature switch and thermally induced optical bistability in a PDLC 147 (1998) 269
Müller, M., see Squier, J.A. 147 (1998) 153
Musto, P., see Mormile, P. 147 (1998) 269

Nahal, A., see Miloslavsky, V.K. 147 (1998) 436
Nakamura, K., see Kowalski, F.V. 147 (1998) 103
Nalik, J., see Ackemann, T. 147 (1998) 411
Nilsson, C., see Ollikainen, O. 147 (1998) 429
Noh, Y.-C., see Kim, G.-H. 147 (1998) 131

Obenschain, S.P., see Deniz, A.V. 147 (1998) 402
Ohlídal, I., see Franta, D. 147 (1998) 349
Okada, T., see Vasa, N.J. 147 (1998) 196
Ollikainen, O., C. Nilsson, J. Gallus, D. Erni and A. Rebane, Terahertz bit-rate parallel multiplication by photon echo in low-temperature dye-doped polymer film 147 (1998) 429
Olsen, M.K., S. Choi, H.M. Wiseman, S.M. Tan and D.F. Walls, A comparison of bichromatic beam splitters for atoms 147 (1998) 382
Ono, H. and N. Kawatsuki, Real-time holograms in liquid crystals on photoconductive polymer surfaces 147 (1998) 237
Oriá, M., see Benevides, C.A. 147 (1998) 51
Österberg, U.L., see Gouvêa, P.M.P. 147 (1998) 163
Ovchinnikov, Yu.B., see Manek, I. 147 (1998) 67

Papernov, S., A. Schmid and F. Dahmani, Laser damage in polymer waveguides driven purely by a nonlinear, transverse scattering process 147 (1998) 112
Parhat, H., see Vasa, N.J. 147 (1998) 196
Pati, G.S. and K. Singh, Illumination sensitivity of joint transform correlators using differential processing: computer simulation and experimental studies 147 (1998) 26
Pelliccia, D., see De Rosa, M. 147 (1998) 55
Percival, I.C., see Power, W.L. 147 (1998) 285
Petti, L., see Mormile, P. 147 (1998) 269
Pollnau, M., P.J. Hardman, W.A. Clarkson and D.C. Hanna, Upconversion, lifetime quenching, and ground-state bleaching in Nd^{3+}:$LiYF_4$ 147 (1998) 203
Power, W.L. and I.C. Percival, Stability of the relative phase between the components of a divided Bose condensate 147 (1998) 285

Qamar, S., S.-Y. Zhu and M.S. Zubairy, Two-photon phase-sensitive amplifier via Raman-driven coherence 147 (1998) 274

Ragosta, G., see Mormile, P. 147 (1998) 269
Rainford, B.D., see Bennett, P.J. 147 (1998) 148
Rawat, H.S., see Mishra, S.R. 147 (1998) 328
Rebane, A., see Ollikainen, O. 147 (1998) 429
Recke, L., see Bandelow, U. 147 (1998) 212
Rhy, H.Y., B.Y. Kim and H.-W. Lee, Optical switching with nonlinear optical loop mirror using vector soliton states in a nearly isotropic fiber 147 (1998) 47
Robertson, A., R. Knappe and R. Wallenstein, Diode-pumped broadly tunable (809–910 nm) femtosecond Cr:LiSAF laser 147 (1998) 294
Rudolph, T.G., Z. Ficek and H.S. Freedhoff, The multiphoton AC Stark effect 147 (1998) 78

Saarinen, J., see Vahimaa, P. 147 (1998) 247
Salmio, R.-P., see Vahimaa, P. 147 (1998) 247
Sandstede, B., see Bandelow, U. 147 (1998) 212
Schleich, W.P., see Bardroff, P.J. 147 (1998) 121
Schmid, A., see Papernov, S. 147 (1998) 112
Scholz, T., see Ackemann, T. 147 (1998) 411
Sekatskii, S.K., see Letokhov, V.S. 147 (1998) 19
Seke, J., see Ficek, Z. 147 (1998) 289
Shatwell, I.R., see Bennett, P.J. 147 (1998) 148
Shen, Y., see Si, J. 147 (1998) 313
Si, J., T. Mitsuyu, P. Ye, Z. Li, Y. Shen and K. Hirao, Optical storage in an azobenzene-polyimide film with high glass transition temperature 147 (1998) 313
Sibilia, C., see Garzia, F. 147 (1998) 333
Singh, K., see Pati, G.S. 147 (1998) 26
Squier, J.A., D.N. Fittinghoff, C.P.J. Barty, K.R. Wilson, M. Müller and G.J. Brakenhoff, Characterization of femtosecond pulses focused with high numerical aperture optics using interferometric surface-third-harmonic generation 147 (1998) 153
Stievater, T.H., see Lim, M.J. 147 (1998) 99
Subramanian, C.K., see Jayanth, P. 147 (1998) 33
Sukenik, C.I., see Lim, M.J. 147 (1998) 99

Svirko, Yu.P., see Bennett, P.J. 147 (1998) 148
Swain, S. and B.J. Dalton, Quantum effects in two-level atom/squeezed vacuum interactions for large phase differences 147 (1998) 187

Tabosa, J.W.R., see Benevides, C.A. 147 (1998) 51
Tan, S.M., see Olsen, M.K. 147 (1998) 382
Tiziani, H.J., see Haist, T. 147 (1998) 173
Tschudi, T., see Zhou, C. 147 (1998) 224
Turunen, J., see Vahimaa, P. 147 (1998) 247

Uchino, O., see Vasa, N.J. 147 (1998) 196

Vahimaa, P., M. Kuittinen, J. Turunen, J. Saarinen, R.-P. Salmio, E. López-Lago and J. Liñares, Guided-mode propagation through an ion-exchanged graded-index boundary 147 (1998) 247
Vallmitjana, S., see Ferré-Borrull, J. 147 (1998) 359
van Leeuwen, K.A.H., see Vredenbregt, E.J.D. 147 (1998) 375
Vasa, N.J., H. Parhat, T. Okada, M. Maeda and O. Uchino, Performance of an optical fiber butt-coupled Cr^{3+}:$LiSrAlF_6$ laser 147 (1998) 196
Vasiliev, M., see Garchev, D.D. 147 (1998) 254
Vianna, S.S., see Benevides, C.A. 147 (1998) 51
Vilaseca, R., see Mompart, J. 147 (1998) 299
Villano, P., see Mormile, P. 147 (1998) 269
Vithana, H.K.M., see Fan, B. 147 (1998) 265
Vorgerd, Ch., see Ackemann, T. 147 (1998) 411
Vredenbregt, E.J.D., K.A.H. van Leeuwen and H.C.W. Beijerinck, Booster for ultra-fast loading of atom traps 147 (1998) 375

Wagner, M., see Meisel, M.-G. 147 (1998) 83
Wallenstein, R., see Bäder, U. 147 (1998) 95
Wallenstein, R., see Robertson, A. 147 (1998) 294
Walls, D.F., see Olsen, M.K. 147 (1998) 382
Wang, L., see Zhou, C. 147 (1998) 224
Wang, W.B., S.G. Demos, J. Ali, G. Zhang and R.R. Alfano, Visibility enhancement of fluorescent objects hidden in animal tissues using spectral fluorescence difference method 147 (1998) 11
Wang, X. and J. Zhou, Scaled fractional Fourier transform and optical systems 147 (1998) 341
Weber, H.P., see Huber, Th. 147 (1998) 117
Wilkins, S.W., see Gureyev, T.E. 147 (1998) 229
Wilson, K.R., see Squier, J.A. 147 (1998) 153
Wiseman, H.M., see Olsen, M.K. 147 (1998) 382
Woutersen, S., see Bonn, M. 147 (1998) 138
Wright, E.M., see Dunlop, A.M. 147 (1998) 393

Xie, S.-W., see Yang, X.-L. 147 (1998) 323

Yang, X.-L., S.-W. Xie and K. Chen, Symmetry property of effective nonlinear optical coefficients in biaxial crystals 147 (1998) 323
Ye, P., see Si, J. 147 (1998) 313

Yeh, P., see Yi, X. 147 (1998) 126
Yi, X. and P. Yeh, Effect of partial coherence on phase conjugation 147 (1998) 126

Zalevsky, Z., D. Mendlovic and A.W. Lohmann, The *ABCD*-Bessel transformation 147 (1998) 39
Zhang, G., see Wang, W.B. 147 (1998) 11
Zhang, X., see Zhong, S. 147 (1998) 242
Zheludev, N.I., see Bennett, P.J. 147 (1998) 148
Zhong, S., S. Liu, X. Zhang and C. Li, Equal correlation peak optimization of the filter-feature-based synthetic discriminant reference image 147 (1998) 242
Zhou, C., L. Wang and T. Tschudi, Solutions and analyses of fractional-Talbot array illuminations 147 (1998) 224
Zhou, J., see Wang, X. 147 (1998) 341
Zhu, S.-Y., see Qamar, S. 147 (1998) 274
Zubairy, M.S., see Qamar, S. 147 (1998) 274

ELSEVIER

15 February 1998

Optics Communications 147 (1998) 451–455

OPTICS COMMUNICATIONS

Subject index to volume 147

Propagation, diffraction and scattering

H. Laabs, Propagation of Hermite-Gaussian-beams beyond the paraxial approximation 1

E. Ibragimov, Three-wave interaction soliton switching in a polarization-gate geometry 5

W.B. Wang, S.G. Demos, J. Ali, G. Zhang and R.R. Alfano, Visibility enhancement of fluorescent objects hidden in animal tissues using spectral fluorescence difference method 11

O. Manuar and D.L. Jaggard, Scattering and perceived asymmetry of flowers, chips and loops 219

Optical information, image formation and analysis, optical computing

J. Glückstadt, Pattern generation by inverse phase contrast 16

V.S. Letokhov and S.K. Sekatskii, On the possibility of ultrahigh-density WROM based on using laser and corpuscular beams 19

G.S. Pati and K. Singh, Illumination sensitivity of joint transform correlators using differential processing: computer simulation and experimental studies 26

P. Jayanth, R.K. Mohan and C.K. Subramanian, Experimental observations of transient phase conjugate waves in photorefractive bismuth silicon oxide crystals 33

Z. Zalevsky, D. Mendlovic and A.W. Lohmann, The *ABCD*-Bessel transformation 39

P.M.P. Gouvêa, E.W. Hansen, U.L. Österberg and D. Healy, Diffraction and aberration analysis of a pulseshaper for a Gaussian beam 163

T. Haist and H.J. Tiziani, Optical detection of random features for high security applications 173

C. Zhou, L. Wang and T. Tschudi, Solutions and analyses of fractional-Talbot array illuminations 224

T.E. Gureyev and S.W. Wilkins, On X-ray phase retrieval from polychromatic images 229

H.P. Ho, A dual probe differential interference scheme for multi-layered high-density optical storage 233

0030-4018/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII S0030-4018(98)00042-X

H. Ono and N. Kawatsuki, Real-time holograms in liquid crystals on photoconductive polymer surfaces 237

S. Zhong, S. Liu, X. Zhang and C. Li, Equal correlation peak optimization of the filter-feature-based synthetic discriminant reference image 242

F. Garzia, P. Masciulli, C. Sibilia and M. Bertolotti, Temporal pulse response of a Cantor filter 333

X. Wang and J. Zhou, Scaled fractional Fourier transform and optical systems 341

D. Franta and I. Ohlídal, Statistical properties of the near-field speckle patterns of thin films with slightly rough boundaries 349

J. Ferré-Borrull, X. Fernàndez, S. Bosch, S. Vallmitjana and E. Martín-Badosa, Post-processing of joint-transform correlator outputs with the Kolmogorov-Smirnov statistical test 359

Optical communications

S. Chi, C.-F. Chen and J.-C. Dung, Multiple soliton interactions in a polarization–division multiplexing system 42

H.Y. Rhy, B.Y. Kim and H.-W. Lee, Optical switching with nonlinear optical loop mirror using vector soliton states in a nearly isotropic fiber 47

F. Carassa and A. Melloni, Solitons in fibers with lumped amplifiers 180

P. Vahimaa, M. Kuittinen, J. Turunen, J. Saarinen, R.-P. Salmio, E. López-Lago and J. Liñares, Guided-mode propagation through an ion-exchanged graded-index boundary 247

D.D. Garchev, M. Vasiliev and D.J. Booth, Wavelength-tunable chirped in-fiber Bragg gratings produced with a prism interferometer 254

R.W. Micallef, J.D. Love and Yu.S. Kivshar, Nonlinear bent single-mode waveguide as a simple all-optical switch 259

Atomic, molecular and plasma physics

C.A. Benevides, M. Oriá, S.S. Vianna and J.W.R. Tabosa, Population transfer via optical pumping in cold cesium atoms 51

M. De Rosa, A. Ciucci, D. Pelliccia, C. Gabbanini, S. Gozzini and A. Lucchesini, On the measurement of pressure induced shift by diode lasers and harmonic detection 55

Condensed matter

B. Fan, H.K.M. Vithana, J.C. Kralik and S.M. Faris, Optical circular dichroism of vacuum-deposited film stacks 265

P. Mormile, L. Petti, M. Abbate, P. Musto, G. Ragosta and P. Villano, Temperature switch and thermally induced optical bistability in a PDLC 269

Quantum optics

J. Czub, J. Fiutak and W. Miklaszewski, Amplification of a light pulse in a two-level medium prepared by a short and strong pulse 61

I. Manek, Yu.B. Ovchinnikov and R. Grimm, Generation of a hollow laser beam for atom trapping using an axicon 67

M. Fortunato, G. Harel and G. Kurizki, Recovering coherence via conditional measurements 71

T.G. Rudolph, Z. Ficek and H.S. Freedhoff, The multiphoton AC Stark effect 78

S. Swain and B.J. Dalton, Quantum effects in two-level atom/squeezed vacuum interactions for large phase differences 187

S. Qamar, S.-Y. Zhu and M.S. Zubairy, Two-photon phase-sensitive amplifier via Raman-driven coherence 274

A. Liu, Microcavity effect on the nonlinear optical intersubband absorption in semiconductor quantum wells 279

W.L. Power and I.C. Percival, Stability of the relative phase between the components of a divided Bose condensate 285

Z. Ficek, J. Seke, R. Kralicek and G. Adam, Stationary lineshape of a two-level atom in a narrow-bandwidth squeezed vacuum 289

C. Becher and K.-J. Boller, Intensity noise properties of Nd:YVO_4 microchip lasers pumped with an amplitude squeezed diode laser 366

E.J.D. Vredenbregt, K.A.H. van Leeuwen and H.C.W. Beijerinck, Booster for ultra-fast loading of atom traps 375

M.K. Olsen, S. Choi, H.M. Wiseman, S.M. Tan and D.F. Walls, A comparison of bichromatic beam splitters for atoms 382

Lasers

M.-G. Meisel, T. Boboc, M. Wagner and H. Langhoff, Miniature hydrogen laser working at high pressure 83

M.A. Marioni and A.A. Hnilo, Self-starting of self mode-locking Ti:sapphire lasers. Description with a Poincaré map 89

U. Bäder, J. Bartschke, I. Klimov, A. Borsutzky and R. Wallenstein, Optical parametric oscillator of quasi-phasematched $LiNbO_3$ pumped by a compact high repetition rate single-frequency passively *Q*-switched Nd:YAG laser 95

M.J. Lim, C.I. Sukenik, T.H. Stievater, P.H. Bucksbaum and R.S. Conti, Improved design of a frequency-shifted feedback diode laser for optical pumping at high magnetic field 99

F.V. Kowalski, K. Nakamura and H. Ito, Frequency shifted feedback lasers: continuous or stepwise frequency chirped output? 103

A.Yu. Dergachev and S.B. Mirov, Efficient room temperature LiF:$F_2^{+\,*\,*}$ color center laser tunable in 820–1210 nm range 107

S. Papernov, A. Schmid and F. Dahmani, Laser damage in polymer waveguides driven purely by a nonlinear, transverse scattering process 112

Th. Huber, W. Lüthy and H.P. Weber, Color center to ion energy transfer in $YAlO_3:Er^{3+}$ 117

N.J. Vasa, H. Parhat, T. Okada, M. Maeda and O. Uchino, Performance of an optical fiber butt-coupled $Cr^{3+}:LiSrAlF_6$ laser 196

M. Pollnau, P.J. Hardman, W.A. Clarkson and D.C. Hanna, Upconversion, lifetime quenching, and ground-state bleaching in $Nd^{3+}:LiYF_4$ 203

U. Bandelow, L. Recke and B. Sandstede, Frequency regions for forced locking of self-pulsating multi-section DFB lasers 212

A. Robertson, R. Knappe and R. Wallenstein, Diode-pumped broadly tunable (809–910 nm) femtosecond Cr:LiSAF laser 294

J. Mompart, R. Corbalán and R. Vilaseca, Lasing without inversion in the V-type three-level system under the two-photon resonance condition 299

A.M. Dunlop, E.M. Wright and W.J. Firth, Spatial soliton laser 393

A.V. Deniz, T. Lehecka, R.H. Lehmberg and S.P. Obenschain, Comparison between measured and calculated nonuniformities of Nike laser beams smoothed by induced spatial incoherence 402

Nonlinear optics

P.J. Bardroff, U. Leonhardt and W.P. Schleich, Adaptive phase retrieval of nonlinear waves 121

X. Yi and P. Yeh, Effect of partial coherence on phase conjugation 126

G.-H. Kim, J.-H. Jeon, Y.-C. Noh, K.-H. Ko, H.-J. Moon, J.-H. Lee and J.-S. Chang, An array of phase singularities in a self-defocusing medium 131

M. Bonn, S. Woutersen and H.J. Bakker, Coherent picosecond vibron polaritons as probes of vibrational lifetimes 138

B.P. Antonyuk and V.B. Antonyuk, High efficient second harmonic generation in Ge-doped silica fibers 143

P.J. Bennett, A. Malinowski, B.D. Rainford, I.R. Shatwell, Yu.P. Svirko and N.I. Zheludev, Femtosecond pulse duration measurements utilizing an ultrafast nonlinearity of nickel 148

J.A. Squier, D.N. Fittinghoff, C.P.J. Barty, K.R. Wilson, M. Müller and G.J. Brakenhoff, Characterization of femtosecond pulses focused with high numerical aperture optics using interferometric surface-third-harmonic generation 153

B.A. Malomed, Suppression of soliton jitter and interactions by means of dispersion management 157

D. Fluck and P. Günter, Efficient second-harmonic generation by lens wave-guiding in $KNbO_3$ crystals 305

F. Devaux, G. le Tolguenec and E. Lantz, Phase conjugate imaging by type II parametric amplification 309

J. Si, T. Mitsuyu, P. Ye, Z. Li, Y. Shen and K. Hirao, Optical storage in an azobenzene-polyimide film with high glass transition temperature 313

V.V. Afanasjev, B.A. Malomed, P.L. Chu and M.K. Islam, Generalized variational approximations for the optical soliton 317

X.-L. Yang, S.-W. Xie and K. Chen, Symmetry property of effective nonlinear optical coefficients in biaxial crystals 323

S.R. Mishra, H.S. Rawat and M. Laghate, Nonlinear absorption and optical limiting IN metalloporphyrins 328

T. Ackemann, T. Scholz, Ch. Vorgerd, J. Nalik, L.M. Hoffer and G.L. Lippi, Self-lensing in sodium vapor: influence of saturation, atomic diffusion and radiation trapping 411

O. Ollikainen, C. Nilsson, J. Gallus, D. Erni and A. Rebane, Terahertz bit-rate parallel multiplication by photon echo in low-temperature dye-doped polymer film 429

V.K. Miloslavsky, A. Nahal and L.A. Ageev, Peculiarities of spontaneous grating formation in photosensitive films under linearly and circularly polarized radiation 436